

ABSTRACT

An eye fixation apparatus including an eye fixation portion with an annular convex bottom, having criss-crossing channels, which goes upon the surface of an eyeball and encircles the cornea, a vacuum port in communication with the criss-crossing channels to exert vacuum pressure through the channels to pull the eyeball membrane to the bottom, and adjustment arms. An eye fixation apparatus can further be provided with an X-translation guide member to adjustably moveable in the X-translation direction in relation to the eye fixation portion, a Y-translation guide member adjustably moveable in the Y-translation direction in relation to the eye fixation portion, and a docking screw.